Quick Look at Live Attenuated Influenza Vaccine (Quadrivalent): LAIV4, 2023-24

Indications for Use and Schedule

- LAIV4 (intranasal) is for persons aged 2 through 49 years who:
 - Are healthy
 - Are **not** pregnant
- Vaccination is recommended to be offered by the end of October and continued throughout the flu season until vaccine expires (see below for further timing considerations)

Key Points

- With the exception of adults 65 years and older there is no preference for any flu vaccine product over another
 - Ensure vaccination occurs with an age-appropriate product and dose volume
- Some children aged 6 months through 8 years may need 2 doses of 2023-24 seasonal flu vaccine to best protect them (see below)
- Persons aged 9 years and older (at the time of their first dose of 2023-24 flu vaccine) only need 1 dose of flu vaccine, regardless of previous flu vaccination history

Vaccine Administration¹

- Administer intranasal 0.2 mL
 - Spray 0.1 mL into each nostril as indicated by dose-divider clip on sprayer
 - Use 0.2 mL dose for all ages 2 through 49 years
- LAIV4 can be given with other vaccines at the same visit – do not miss an opportunity
- If LAIV4 is not given on the same day as other live vaccines (MMR, Var, MMRV), separate by 28 days
- For more on LAIV4 administration, refer to "Administering Influenza Vaccines" at <u>www.michigan.gov/flu/resources/resources-for-health-professionals</u>

Storage and Handling

- Store in the refrigerator at 36°F to 46°F (2°C to 8°C)
- Pharmaceutical-grade (purpose-built) units are preferred for vaccine storage
- Do not freeze; keep in original box with lid on/protect from light
- Do **not** use expired vaccine
- LAIV4 expiration dates differ from other flu vaccine expiration dates

INFORMATION ON WHICH CHILDREN AGED 6 MONTHS THROUGH 8 YEARS NEED 2 DOSES OF FLU VACCINE:

- Determination of the number of doses needed is based on the number of doses of flu vaccine received in previous seasons and the age at the time of the first dose of 2023-24 flu vaccine
- Children aged 6 months through 8 years who received 2 or more total doses of any trivalent or quadrivalent flu vaccine (i.e., IIV3, IIV4, LAIV3, LAIV4, ccIIV3, ccIIV4) at least 4 weeks apart before July 1, 2023, only need 1 dose of 2023-24 flu vaccine
- If a child has not received at least 2 trivalent or quadrivalent flu vaccines at least 4 weeks apart before July 1, 2023, give 2 age-appropriate doses of 2023-24 flu vaccine separated by 4 weeks
 - Give the 1st dose as soon as possible after vaccine becomes available (including July and August if available) to allow the 2nd dose to be received by the end of October
 - If both doses haven't been received by the end of October, still complete the 2-dose series
 - Both doses should be administered even if the child turns 9 years old between dose 1 and dose 2
 - Refer to "Who Needs 2 Doses of 2023-24 Seasonal Influenza Vaccine?" at www.michigan.gov/flu/resources/resources-for-health-professionals

CONTRAINDICATIONS (PERSONS WHO SHOULD NOT RECEIVE LAIV4):

- Severe allergic reaction (e.g., anaphylaxis) after a previous dose of flu vaccine (i.e., any egg-based IIV, ccIIV, RIV, or LAIV) or one of its components
- Concomitant aspirin- or salicylate-containing therapy in children and adolescents
- Children aged 2 through 4 years who have received a diagnosis of asthma or whose parents or caregivers report
 that a health care provider has told them during the preceding 12 months that their child had wheezing or asthma
 or whose medical record indicates a wheezing episode has occurred during the preceding 12 months

CONTRAINDICATIONS, CONTINUED:

- Immunocompromised due to any cause, including but not limited to immunosuppression caused by medications, congenital or acquired immunodeficiency states, HIV infection, anatomic asplenia, or functional asplenia (e.g., due to sickle cell anemia)
- Close contacts and caregivers of severely immunosuppressed persons who require a protected environment
- Pregnancy
- Persons with active communication between the cerebrospinal fluid (CSF) and the oropharynx, nasopharynx, nose, or ear or any other cranial CSF leak
- Persons with cochlear implants
- Receipt of influenza antiviral medication within the previous 48 hours for oseltamivir and zanamivir, previous 5 days for peramivir, and previous 17 days for baloxavir

PRECAUTIONS (IN CERTAIN CIRCUMSTANCES, PERSONS MAY RECEIVE LAIV4):

- Moderate or severe acute illness with or without fever
- History of Guillain-Barré syndrome (GBS) within 6 weeks of previous flu vaccination
- Asthma in persons aged 5 years and older
- Other underlying medical conditions that might predispose to complications after wild-type influenza infection (e.g., chronic pulmonary, cardiovascular [except isolated hypertension], renal, hepatic, neurologic, hematologic, or metabolic disorders [including diabetes mellitus])

FURTHER POINTS TO CONSIDER:

- ACIP recommends that all persons aged 6 months and older with egg allergy should receive influenza
 vaccine. Any influenza vaccine (egg based or nonegg based) that is otherwise appropriate for the recipient's
 age and health status can be used
 - Egg allergy alone necessitates no additional safety measures for influenza vaccination beyond those recommended for any recipient of any vaccine, regardless of severity of previous reaction to egg
 - All vaccines should be administered in settings in which personnel and equipment needed for rapid recognition and treatment of acute hypersensitivity reactions are available
 - Refer to "2023-24 Influenza Vaccine Screening for Persons Who Report Egg Allergy" at www.michigan.gov/flu/resources/resources-for-health-professionals
- Vaccination is recommended to be offered by the end of October and continued throughout the flu season until
 vaccine expires
- If the recipient sneezes immediately after LAIV4 administration, the dose should not be repeated
- If the recipient has nasal congestion that might impede delivery of the vaccine to the nasopharyngeal mucosa, don't miss an opportunity, administer another age-appropriate influenza vaccine, or defer LAIV4 until resolution of the illness
- LAIV4 can be given with all other vaccines; for more information, refer to www.cdc.gov/flu. If LAIV4 is not given on the same day as other live vaccines (MMR, Var, MMRV), separate by 28 days
- Use current LAIV Vaccine Information Statement (VIS) with details about the Michigan Care Improvement Registry (MCIR); Michigan VIS are posted at www.michigan.gov/VIS
- Document LAIV4 as "LAIV4" on the vaccine administration record, electronic medical record (EMR), and the immunization record card.
- For more information on Recombinant Influenza Vaccine (RIV4, Flublok® Quadrivalent), Cell Culture-based IIV (ccIIV4, Flucelvax® Quadrivalent), or Inactivated Influenza Vaccines (IIV4, High-Dose IIV4, and Adjuvanted IIV), refer to additional Quick Looks at www.michigan.gov/vaccinequicklooks

For more guidance on influenza vaccine recommendations, refer to "Prevention and Control of Seasonal Influenza with Vaccines: Recommendations of the Advisory Committee on Immunization Practices — United States, 2023–24 Influenza Season", Recommendations and Reports / August 25, 2023 / 72(2);1–25, located at www.cdc.gov/vaccines/hcp/acip-recs/vacc-specific/flu.html.

Publicly purchased LAIV4 can be administered to eligible children aged 2 through 18 years through the Vaccines for Children (VFC) program. Eligible children include those who are uninsured, underinsured, Medicaid eligible, American Indian, and Alaskan Native.

For more information regarding flu vaccination, contact your local health department, visit Michigan Department of Health and Human Services at www.Michigan.gov/flu, or visit www.cdc.gov/flu or www.cdc.gov/mmwr.

¹ For more information, see Advisory Committee on Immunization Practices (ACIP) General Best Practice Guidelines for Immunization at www.cdc.gov/vaccines/hcp/acip-recs/general-recs/index.html.